



Memorandum

To: Honorable Mayor Maso and Members of the Frisco City Council

cc: George Purefoy, City Manager
Cissy Sylo, P.E., Director of Engineering Services
Elizabeth Metting, P.E., Asst. Director/City Engineer
Jason Brodigan, P.E., Senior Civil Engineer

From: Brian Moen, P.E., Assistant Director of Engineering Services

Date: November 18, 2008

Subject: Traffic Signal Design Services for the Intersections of Main at Preston, Main at Hillcrest, Main at Coit, and Main at Independence

Action Requested: Staff requests that Council approve a Resolution authorizing the City Manager to execute an agreement for transportation engineering services with Lee Engineering, L.L.C., for the design and bid package preparation for temporary and permanent traffic signal installations at the intersections of Main Street at Preston Road, Main Street at Hillcrest Road, Main Street at Coit Road, and Main Street at Independence Parkway.

Background Information: The widening of Main Street (FM 3537) from Preston Road (SH 289) to Custer Road (FM 2478) will require the existing traffic signals to be modified during construction and then reconstructed into new permanent traffic signals when the roadway widening construction project is completed. The original roadway design contract with Birkhoff, Hendricks, and Conway, the roadway design engineer for FM 3537, did not include a scope of services to redesign the traffic signals. The roadway design engineering firm does not typically perform this type of design work, therefore, staff considered other local traffic engineering consultants to design these traffic signals.

Under this contract, Lee Engineering will work in conjunction with Birkhoff, Hendricks, and Conway to furnish the signal designs that will be included in the FM 3537 construction plans. The total fee for the design of the traffic signals is \$72,017.00.

The construction of the temporary and permanent traffic signals will be funded by TxDOT as part of the roadway widening project. The City may be expected to pay

for any traffic signal upgrades such as powder coating of the traffic signal poles, opticom, and illuminated signs. An Interlocal Agreement (ILA) with TxDOT will be worked out at a later date. This ILA will address the construction costs associated with the roadway widening and temporary/permanent traffic signals as well as the traffic signal upgrades.

Alternatives: The City Council could consider the following alternatives:

- Approval of Resolution
- Send back to staff with direction

Financial Considerations: The cost associated with the design of these improvements is \$72,017.00. Funding is being provided by the 2005 Bond Sale. Funding for the traffic signal upgrades will come from 2006 Bonds.

Legal Review: Reviewed and approved as to form.

Supporting Documents:

- Location Map.
- Resolution.
- Engineering Design Services Agreement

Staff Recommendation: Staff recommends adopting a Resolution authorizing the City Manager to enter into a Professional Engineering Services Agreement with Lee Engineering, L.L.C., in the amount of \$72,017.00, for the design of temporary and permanent traffic signals at the intersections of Main Street at Preston Road, Main Street at Hillcrest Road, Main Street at Coit Road, and Main Street at Independence Parkway. Staff will be available during the November 18, 2008, meeting if you have any questions regarding this matter.